

# **432 MHz AND ABOVE EME NEWS**

**November 2001 VOL 30 # 12**

**ALLEN KATZ, K2UYH**

**Editor**

**ENGR DEPT., THE COLLEGE OF NEW JERSEY, TRENTON, NJ 08650-4700  
(W 609-490-2817**

**OR H 443- 3184, FAX 609-443-1713, AND EMAIL:**

**Allen Katz, K2UYH**

**PRODUCTION ASSIST: BRIAN MULLANEY, KB2TIS or (609-883-6390)**

**NETNEWS EDITOR: G4RGK, DAVID DIBLEY**

**EME DIRECTORY: DL4EBY/DK0TU, KLAUS TIEDEMANN,  
HALSKESTR.35, D-12167 BERLIN, (49-30-7955467), E-Mail:**

**Klaus Tiedemann.**

**EME Directory**

**\*\*\*E-MAIL LIST COORD: Scott KD4LT**

**\*\*\* NA EME BBS: 704-284-4854 \*\*\***

**EME NETS**

**14.345, 10 AM ET SATURDAYS, AFTER VARO NET SUNDAYS:**

- **NET CONTROL and SKED COORD: JOE, K1RQG (207-469-3492), E-MAIL: Joe, K1RQG**
- **EME STANDINGS: JIM STARKEY, W0KJY, 3845 CAPITOL DRIVE, FT.COLLINS, CO 80526, (970) 226-0669)**
- **WEB VERSION IS PRODUCED BY W6/PA0ZN AND AVAILABLE AT:**

**432 MHZ AND ABOVE NEWSLETTERS.**

**432 MHz AND ABOVE CHAT line**

## CONDITIONS

The 1st part of the 2001 ARRL will not go down in history for great conditions. For QSOs, the distance to the moon is not the dominant factor. Signal quality is of most importance. A close sun and moon and high solar activities are never a good combination for EME. I am afraid the folks that choose the contest dates do not understand EME. Besides the generally poor signal quality (particularly on 1296) and the Faraday problems on 432, a few more hours of moon window would have been very welcome. With the majority of the EME operators in the northern hemisphere, it makes sense to run the contest at a high northern declination – [sorry Ivo]. A daytime moon also makes it difficult for new stations to find the moon. At least there was a good turn, especially when you consider that EME activity is now spread across more than 7 bands. In the old days it was only 2 or 3! The contest dates are not better in Nov, but I am sure the activity will be there again. Many stations will want to make up for their limited time window in Oct. You also might want to try the official SW, the weekend before the contest. Conditions were better during the Oct SW than the contest, but there was not a lot of activity. 1.25 cm (24 GHz) EME continues to make news – see the reports. I am told VE4MA is now working on 47 GHz EME!

**HIGH SCORES:** On 70 cm N2IQ 82x?, OH2PO 78x31, DJ5NV 71x30, K1FO 71x28, DL7APV 57x27 and VK3UM 51x26 from down under -- no hint from DL9KR. On 23 cm G4CCH 54x29, K4QI 43x21, F2TU 37x?, G3LTF 33x20... no word from OE9XXI or OE9ERC.

---

### **DJ5MN**

[Bernard](#) reports -- It is done! With my 2.95 m dish I worked my initial #100 on 1296. It was with K1RQG during the Oct SW. In the contest I worked three new ones (all on random) F6ETI #101, DH0OAH #102 and W2DRZ #103. Contest activity seemed lower than last year. I am available for skeds preferabl during the Nov SW. I will be QRV in contest on 23 cm in Nov, but still with a limited window to NA. My 10 GHz EME system is nearly ready. I have a preamp with 0.5 dB NF and waveguide input. My TWTA puts out a stable 150 plus W. I expect to be ready in spring for skeds. On 23 cm I am trying to complete a 2 cavity TH327 PA. I keep burning up connectors - just too much QRO. I have QSL'd all my initials, but I still need of QSLs for about 15 of my initials worked longer ago!

### **DJ5NV**

[Guni](#) did very well in the contest on 70 cm with 4 x 9BV yagis and a 2 kW PA. He

worked 71x30 and heard many others including W7MEM, S53J, PA3DZL, UA6LGH and W1IPL. He says Saturday condx was poor with up and down signals. Guni will be QRV again 10/11 Nov.

#### **DJ9YW**

Heinrich reports on his Oct 1296 activity -- I worked on 13 Oct OK1CA for initial #134, HB9BHU, F5HRY #135, K1RQG #136 and W2DRZ #137. Heard were F2TU, ZS6AXT, DJ5MN, OZ4MM, JH5LUZ, G4CCH, OE9ERC, F5PAU, F1ANH, GW3XYW, HB9Q, VE9DW, WA1JOF, K0YW, KA0Y, OZ6OL, IK2MMB, F6ETI, SM3AKW, K5JL, HB9SV, CT1DMK, W2UHI and OE9XXI for a score of 29x19.

#### **DK3WG**

Jurgen worked in Oct prior to the contest SP6OPN and SP6JLW for initial #381 on 70 cm. In the contest he added DJ5NV #382, KU4F #384, DL5LF #385 and JA6DZI #386.

#### **DL1YMK**

Michael's XF1 dxpedition reported in the last NL was not for EME. He writes – I'm back to normal moonbounce activities for 70 and 23 after a successful, but very dangerous HF-operation on Isla Maddalena, because of scorpions and hurricane Juliette. I will be on 23 cm on 27/28 Oct, but will not be available on the SW, but I will be on for the 2nd leg of the contest. I still need QSL's from HB9BBD, F2TU, OE9XXI, OK1KIR, OZ6OL, W2UHI, VE1ALQ, IK2MMB, W5LUA and KD4LT.

#### **DL4MUP**

Dave in (JN58ri) is now operational on 1296 EME -- My previous call was G4HUP. I was active on 144 EME in 1993/4 using this call. The results of my 1st weekend (all initials!) are on 13 Oct OE9XXI, HB9SV, OE9ERC, G3LTF, G4CCH, K5JL, F6CGJ and K0YW, and on 14 Oct F5PAU, DJ5MG, HB9Q, ZS6AX, OZ6OL, OE5EYM, GW3XYM, OZ4MM, K2UYH, CT1DMK, OE5JFL and K4QI. The station (located at DL4MEA QTH) consisted of a 3 m dish (DL4MEA tracking drive software + Nova), diagonal waveguide feed, FHX35 LNA, TH347 (400W out at present) to FT847/Spectran. My thanks to Guenter, DL4MEA, for making the QTH and station available! We have some further work to do, both to optimize the system, and to make repairs, which were found to be needed after the contest finished.

#### **DL5LF**

Frank's contest weekend summary On 70 cm the contest did not start well for me. I was up at 0400 local, but had the PA fail to switch on. I worked all morning to get it going again and ended up buying a little 12 V transformer. As a result I made only 2 QSOs: N2IQ and DL9KR (both very strong). The 2nd day was

better and QSOs were completed with DF3RU, DK3WG, OH2PO, DL7APV, DJ5NV, OZ4MM, K1FO, HB0Q and K0RZ. I did not find condx to be very good. I am now running 2 x 8.5 w/ 9BV yagis with 700 W at the feed and an FHX35LG LNA. Before the contest I found a power consuming capacitor in the LNA's input circuit, after the receiving system did not copy the local beacons. I think the symptoms increased with time and probably were the reason for my receiving difficulties during recent skeds. WX during the contest was very nice.

#### **DL7APV**

Bernd ended the 1st part with 57x27 -- Not bad so far, but there were many well known call signs missing on 432. I copied lots (>20) more and hope to work them next part. The WX was super, no wind, no rain and 20 °C. Condx were ok and the rig played without any trouble... so it was big fun! Initials worked were EA8FF, SM3BYA, W2WD, JS3SIM, DB6NT, K6JEY and DJ5NV (Maybe the same as DL9NDD?). I received on Saturday my new TX feedline - 1 7/8"!

#### **F2TU**

Philippe ended the 1st part of the contest on 70 cm with 24 QSOs, on 23 cm 37 QSOs, on 13 cm 2 QSOs - ZS6AXT and SM3AKW, heard was G3LQR and IK2RTI, and on 3 cm 2 QSOs - F6KXS for initial #11 and I5PPE #12. CWNR were on 3 cm were IW4BTJ, OK1UWA, VE4MA, HB9BHU, W6HD, WA7CJO (55) on SSB and PA0EHG (44). On 13 cm ZS6AXT (and F2TU) were on calling for all 8 hours, but it was a "desert"! On 70 cm there was much Faraday and QSB, but no problem because of polarization switching. Philippe plans to be QRV on Saturday on 3 cm for the NA window and on 13 cm for the JA window on Sunday on 6 cm for JA and NA during the next contest weekend. He will also be calling on 432.030. He only has 220 W at the feed as one of his 4CX250Rs is bad – and is looking for new tubes.

#### **F5HRY**

Herve sends his results for the 1st part of ARRL EME Contest on 23 cm – My score is 23x14. I am using 2.6 m dish, 0.35 dB NF LNA and 400 W at the feed. I have operated 23 cm EME from my home QTH (JN18eq) before Sept, but had a 16 x 23 yagi array and only worked 5 stations (OX2K, F1ANH, OE9XXI, N2IQ and OZ4MM). I was active on 432 with my 4 x 26 el yagis (down now). Thus all other 1296 QSOs are initials. During the contest I worked OZ6OL (519/539), HB9Q (559/529), HB9SV (569/559) for initial #15, F5PAU (539/559) #16, G4CCH (539/549), SM3AKW (529/539) #17, F6CGJ (559/549) #18, G3LTF (O/O), KA0Y (549/549) #19, K0YW (559/549), OZ4MM (559/559), F1ANH (O/O), W2DRZ (O/O) #20, K5JL (559/559) #21, OE9XXI (579/559), GW3XYW (429/339) #22, K4QI (539/549) #23, VE9DW (539/549) #24, F2TU (549/559) #25, W2UHI (529/549) #26, OE9ERC (559/569) #27, OH2DG (M/O) #28 and W5LUA (O/O) #29.

### **F6ETI**

**Philippe's** results for his 1st participation in the ARRL EME Contest (1st leg) on 23 cm was as follows: OZ4MM, F6CGJ, G4CCH, F2TU, ZS6AXT, G3LTF, K0YW, SM3AKW, DJ5MN for initial #29, K5JL, F5PAU #30, OE9XXI #31, OE9ERC, HB9Q, F1ANH, OZ6OL, OE5JFL #32, OH2DG #33, GW3XYW #34, K2UYH #35, K1RQG, VE9DW #36, SM6CKU #37, W5LUA, KA0Y #38, K4QI and W2UHI for 27 QSOs and 10 initials. The station consisted of a HB K2 Elecraft HF transceiver + 28/144 MHz transverter (F5FLN) + 144/1296 MHz transverter (DB6NT) + M57762 + TH308 (400 W out) and VE1ALQ and F1EHN tracking system. ANT is 3.2 m dish, VE4MA circular feed, ATF 36077 preamp with 0.5 NF, and 200 W at the feed.

### **F6KSX**

**Jean Jacques (F1EHN)** reports that his group is QRV again on 3 cm after making repair's to their TWT amplifier. It is running well again, and they (Jean Jacques + F1/W5SXC, F6DLA and F6ECX) will be looking for QSOs in the contest.

### **F/G8MBI**

**Graham** is now QRV on 1296 and was active in the 1st leg of the contest – I am using a 3.95 m dish that gives 17.5 dB of sun noise (with a flux of 122 at 1450 MHz) and a max of 50 W at the feed. During the contest I heard 51 stations and worked ZS6AXT, F2TU, OZ4MM, OK1CA, OE9XXI, G4CCH, F6CGJ, OE9ERC, G3LTF, K0YW, K5JL, HB9Q, OE5JFL, K1RQG, HB9SV, SM6CKU (smallest station QSO'd) and KA0Y for a score of 17x13. Heard/called were OE5EYM (got partial call), DJ5MN (many QRZs), VE6NA, JA6AHB, F1ANH (sent G8MBI, but never F/), F5PAU (CWNR), SM3AKW (CWNR), IK2MMB, OZ6OL (many QRZs), F5HRY (CWNR), DJ9YW, HB9BCD, VE9DW (many QRZs), W2DRZ, HB9BHU (many QRZs), GW3XYW (got T - great patience TNX), WD5AGO, OH2DG, ?9FAM, CT1DMK (CWNR), DL4MUP, JA6CZD, JH5LUZ, F6ETI (CWNR), WA1JOF, K4QI (QRZ), K2UYH (many QRZs), K9BCT, LU8EDR, WA4OFS, W2UHI (CWNR), DL6D?U and JA8IAD. Thanks to those that tried VERY hard to hear my QRP signal. I guess only 3 dB more would be enough to work most of you easily. No time to get that done before November, but hope to catch a few more as the traffic slows. I still have up to 20 k to come off the 1st LNA and to install some more uummmph.

### **G3LTF**

**Peter** writes -- I made QSOs on 4 bands in the contest, 2 m to 13 cm. Condx on 432 were good at times with very sharp pol. I found it very difficult to work the smaller stations as with few exceptions (HA5SHF) they put out few CQs. I heard them at workable strength working the bigger stations - most frustrating! The gear all worked OK, but I have still not cured the backlash in the polar mount. I will solve this problem by Nov. On 432 on 13 Oct I worked VK3UM, DK3WG,

UA3PTW, OH2PO, VK4AFL, JL1ZCG, DL7APV, SM3AKW, HA1YA, EA8FF, G3LQR, JH4JLV, DJ3FI, DJ5NV for a likely initial, I5CTE, HB9Q, ON5OF, DL7APV, N2IQ, KU4F, DF3RU, DL9KR, K0RZ, OZ4MM and K1FO, and on 14 Oct S52CW, G4ERG, OE5EYM, G4ALH, F2TU, N9AB, F5FLN, W7CI and K5WXN. Heard were W1ZX and KJ7F, CWNR were W7CNK, KA0RYT, W4ZRZ and K4EME. On 1296 on 13 Oct I QSO'd ZS6AXT, F1ANH, SM3AKW, IK2MMB, F/G8MBI for initial #181, DL4MUP #181, OK1CA, VE9DW, F6ETI, OE5EYM, F5HRY, F5PAU, K0YW, KA0Y, WD5AGO, GW3XYW, K5JL, G4CCH, CT1DMK, OZ4MM, W2DRZ, K4QI, W2UHI, F6CGJ, OE9XXI, K2UYH and F2TU, and 14 Oct DJ5MN, OE9ERC, HB9Q, HB9BHU, CTIDMK (dup), JH5LUZ and HA5SHF. Heard were IK3COJ, W7GBI, VE6NA, JA8IAD, CWNR were HB9BCD and JA6CZD. On 14 Oct on 13 cm I worked only G3LQR. CWNR were SM3AKW, F2TU and IK2RTI ... the problems of cross band operation! Scores so far appear to be on 432 32x22, on 1296 33x20, on 2320 1x1 and on 2 m 2x2.

### **G3WDG**

Charlie was among those who copied W5LUA and VE4MA on 24 GHz EME during their EME tests this past month -- I would have given both an (O) report. Petra was on the RX, while I was doing the tracking using moon noise. VE4MA's signal was a little louder than W5LUA's and very consistent. We were using our Andrews 10' dish, DB6NT waveguide preamp feeding a HB 24 GHz transverter based on the DB6NT MK2 design. G4DDK004 LO, G3WDG009 2.4 to 12GHz multiplier, WDG waveguide image filter, etc. Sun noise at 19 degs el was 13 dB and moon noise at 33 degs el was 1.8 dB.

### **G4CCH**

Howard writes --I'm pleased to say that there was a good turn out for the 1st leg of the contest. Conditions were good for most of the weekend and I was kept busy all day on Saturday although things slowed down a lot on Sunday. The highlight of the weekend was working NL7F right at the end of my window on Sunday. I would have closed down well before we worked normally, but this time I hung around and it paid off. Elevation was 7 deg and the moon was setting fast, a few minutes later and it would have been a different story. Here's a list of the stations worked: on 13 Oct F1ANH, JH5LUZ, OE5EYM, JA6AHB, DJ5MN, HB9BHU, JA8IAD, ZS6AXT, F5PAU, JA6CZD, OZ4MM, F/G8MBI (#158), SM3AKW, F6ETI, F6CGJ, OE9XXI, CT1DMK, OK1CA, SM6CKU, GW3XYW, DL4MUP for initial #159, F5HRY, IK2MMB, WA1JOF, K0YW, VE9DW, WA4OFS, G3LTF, OE9ERC, W2DRZ, K5JL, WD5AGO, K1RQG, W2UHI, K4QI, W7QX, K2UYH, W7SZ, F2TU, OZ6OL and VE6NA, and on 14 Oct IK3COJ, HA5SHF, HB9BCD, OH2DG, HB9Q, KA0Y, OE5JFL, VE6TA, LU8EDR, DO6ME #160, EA3UM, K2AH, NL7F #161 and country 31. Gotaways were JA8ERE, DJ9YW, DJ3MY, DL6YDH/DL0OAH, HB9SV, W4AD, W5LUA, W7GBI and K9BCT. My



score so far is 54x29. Does anyone have info on DO6ME? Also need grid info for HB9BCD, DH5RZ and F1OAT.

#### **HB9BBD**

Dominique wants remind everyone that he could not be QRV (on 23 cm) during the Oct contest weekend. He will be active in Nov and hopes to offer QSOs to all interested stations.

#### **JA7BMB**

Hiroshi in PM97xm (tel +81-242-25-2622 and FAX +81- 242-32-4321) is now QRV on 1296 with 500 W from a GI7B to circular feed and HB 6 m mesh dish, on 2424 with 100 W from 2 x 7289s to a circular feed and HB 6 m mesh dish, on 5760 with 30 W from IM-FET SSPA to circular feed and HB 6 m mesh dish. His moon window is el > 15 degs for East and el = 0 for the west. Hiroshi is now also QRV on 10450 MHz with 20 W from an IM-FET SSPA to a HB 4.5 m mesh dish. He can also receive on 10368.100 for split operation, but can not receive there. Hiroshi is seeing 12.7 dB of sun noise and 3.5 dB CS/G noise. His window for 3 cm is el >35 degs for east.

#### **JJ1NNJ**

Kouichi's Oct contest report -- I worked on 70 cm on 13 Oct KL6M (O/O) for initial #67, UA3PTW (O/O) #68, SM3AKW (O/O), DJ5NV (559/559) #69, DK3WG (449/439), DL9KR (579/569), OH2PO (579/559), HB9Q (559/429), EA8FF (O/O) #70, HA1YA (O/O), N2IQ (579/549), KU4F (449/449) #71, N9AB (O/M), VK4AFL (O(339)/429), K1FO (559/439) and JL1ZCG (559/549), and on 14 Oct VK3UM (449/439) #72, DL7APV (449/449), DF3RU (O/O), K5WXN (O/O) #73, K5GW (O/O), K0RZ (O/M) and JH4JLV (O/O) for a total of 23x17. The WX for the contest was very fine with no wind. Condx were fine, but there was deep and very long QSB. I am currently running 16 x 13 el FO yagis with 250 W and a FHX35LG LNA. Sun noise is 15.6 dB.

#### **K0RZ**

Bill was last QRV on 432 in March. He reports that during the contest in Oct he QSO'd On 70 cm DF3RU, DJ3FI, DJ5NV, DJ6MB, DL5LF, DL7APV, DL8OBU, DL9KR, EA3DXU, EA8FF, F5FLN, G3LTF, G4ERG, HA1YA, I5CTE, JA6AHB, JH4JLV, JJ1NNJ, JL1ZCG, K1FO, K4AR, K4EME, K5GW, K5WXN, K6JEY, KA0RYT, KL6M, KU4F, N2IQ, N9AB, OE5EYM, OH2DG, OH2PO, ON5OF, OZ4MM, SM3AKW, UA3PTW, VK3UM, VK4AFL, W4ZRZ, W7CI, W7CNK, W7SZ and WB0GGM for a score of 44x24. Initials were KU4F #296, K4AR #297 and state 44, K6JEY #298, DJ5NV #299, DL5LF #300 and W4ZRZ #301. His 8 x 22 K1FO yagis were horizontal. Condx were ok with Faraday rotating faster than normal. Bill needs the states of HI, IN, KY, ND, NV and VT on 432.

#### **K1FO**

[Steve](#) is rather depressed after the 1st weekend of the ARRL EME Contest. He found conditions poor, low activity, had a computer problem that had his AZ-EL indicators reading wrong, interference from the PAVEPAWS radar on Cape Cod and a bad relay. He can deal with all this without getting too upset. What has him really discouraged is a very strong pulse type interference that is making it nearly impossible for him to hear anything. This interference covers almost the entire 70 cm band from 422 to 449 MHz. It is strongest around 428 MHz but is S9 at 432 with the TS-2000 only, that is without any preamps. In addition to the pulses the noise floor is raised and the elevated noise floor goes up and down with frequency. It peaks southwest, doesn't change with polarity and the noise blanker only partially reduces it. It could be spread spectrum, digital TV garbage or could be from some of the many unlicensed and presumably illegal consumer devices that operate in the 70 cm band, such as wireless weather stations that are cropping up. All in all the contest was pretty much a disaster. Conditions were horrible due to ionospheric disturbances. He could not believe how rapidly pol was moving around, especially on Saturday. At times he was constantly rotating pol to keep weak stations peaked up, that is rotating polarity back and forth during a single receive period. Many signals had very broad polarity on Saturday with less than a 3 dB peak. These problems were especially apparent on the northern latitude stations. The next problem Steve faced was a seemingly dead receiver. He finally made Sun noise measurements around 1630 on Saturday and measured only 14.4 dB of Sun noise. He lost about 4 hours testing and debugging the problem, which turned out to be an arced relay. After repairs, he measured 20.4 dB of Sun noise (flux= 180). He has no explanation for the arced relay as the carbon is primarily on the RX port. The only explanation he can come up with is that a lightning strike arced the contact a few weeks ago as he uses energize to RX. How the preamp survived is beyond his comprehension - see Steve's photo! After fixing the relay he had lost visual moon and could not hear echoes nor any other EME signals. Another hour was lost trying to figure out what was going on. The problem was the computer. Back in Sept his old reliable 80386 computer used for EME tracking finally bit the dust after >15 years. He resurrected an old 80486 computer to replace it, but had to reload REALTRACT from the original boot disks as W9IP's protection scheme would not let him just copy over all the files from the backup disk. In loading the software from scratch somehow REALTRACK had activated "fudge factors" that is a compensation that you can set up to make the display read differently than actual. There must have been some sample fudge factors on the original software disk. They made the displays read 5 degs off in EL and 3.5 in AZ just enough so the array appeared to be pointing close to where it should, but off enough to not hear any EME signals. After Saturday moonset with everything finally working Steve thought he was all set for Sunday, but Murphy was not done. At moonrise, the moon came up exactly in the AZ direction of the PAVEPAWS radar. The warm weather made for good tropo and the unbelievably active radar clicks were 30 over S9. An hour



and a half after moonrise the array was finally far enough off Cape Cod so the radar was not a problem. Unfortunately when the array hit 120 degs AZ the other interference mentioned before became a problem again. It was especially bad on the setting moon. In addition activity on 432 seemed very poor on Sunday, like the 2nd contest weekend usually is. He ended up with a very disappointing 71x28. This is his worst 1st weekend since 1988. He also apologizes to anyone who called him that he could not hear and hopes that they will understand the relay and interference problems and give him another call in Nov.

#### **K1RQG**

Joe had a ball in the contest on 23 cm. Although he missed a lot of stations, he worked a lot as well. He is still using just 100 W (really 120 W in shack) and his new 32' dish. He plans to take the time to check out a few tubes and get a little more RF out.

#### **K4QI**

Russ sends his EME contest results -- I put some effort into the EME test but only on 1296. I have heard better conditions. On 13 Oct I worked G4CCH, K0YW, K5JL, OZ6OL, VE9DW, F5HRY, OZ4MM, W2DRZ, IK2MMB, CT1DMK, F5PAU, OE9XXI, WA1JOF, F2TU, OE9ERC, K2UYH, VE6NA, F6CGJ, G3LTF, W7SZ, F1ANH, W2UHI, K1RQG, WD5AGO, KA0Y, JH5LUZ and JA6CZD, and on 14 Oct HB9SV, DJ5MN, OE5JFL, K9BCT, OE9ERC (dup), HB9Q, VE6TA, OE5EYM, WA4OFS, GW3XYW, DO6ME, W7QX, F6ETI, LU8EDR, K2AH, EA3UM and DL4AUP for a score of 43x21. I had to shut down early on Sunday afternoon because of severe weather, high winds and heavy rain.

#### **KF6JJL**

Jeff (WA6KBL) reports that as part of this year's Microwave Update Conference the big 150' Stanford dish was put back on EME on 1296. The demonstration was on Thursday evening local time. Contacts began on 28 Sept at 0040Z and continued to 0200Z. He writes -- I had only 2 hrs to fully install and test the equipment before moonrise. I slipped by only 15 minutes, but this was enough to miss hearing any Europeans as their window was the shortest perhaps of the entire year. The moon was at an extremely low declination, so it had already set in most of Europe before it even rose here! This is the major problem of operating from the W. Coast. We made 5 contacts in spite of the fact that I had burned out the driver and we were only putting out 20 W. QSO'd were W2UHI, K5JL, W5LUA, N2IQ and K1RQG on CW and W5ORH (K5JL's other call) on SSB. The quality of the return signals were not as good as previously tests as I found that they have lost the WR850 rotary joint and have not used the waveguide to the back of the dish in years. Thus I had at least 7 dB loss from the 100 m cable going to the feed. There is no way to put a T/R switch at the feed, so

we had to live with the degraded NF this produced.

#### **KL6M**

Mike writes -- I operated 70 cm in the contest, but had a few problems. I lost my preamp right in the beginning of my already too short European window. I replaced it and got back on the air, but had to leave early on Sunday due to a 10th wedding anniversary. I did managed to work 27 QSOs. I plan to be on 70 cm again for the 2nd leg. I need to get the word out to the Eurs that if they want the Alaskan multiplier they must listen closely for me right at the beginning of the contest on 10 Nov at 0000 around 432.012 for about an hour or less. I will be trying for Eur again at my moonrise on 10 Nov at 1200 for only an hour and a half. The next window at my moonset is fairly useless, and the next moonrise is not too good either, but I will still be there trying. I am also open for skeds on 3 Nov.

#### **KU4F**

Les writes -- I really enjoyed the contest on 432, and appreciate all the calls. My apologies to the people that I could not pull out of the noise or QRM. I found out that my sun noise was down about 7 db from normal. System degradation did not seem to be a problem with stronger stations and my echo's, but sure made it hard to pull stations out down in the noise. I also found that I had to rotate polarity more than usual, even on strong stations. With my poor CW operating skills, I need all the signal to noise ratio I can get. My biggest surprise of the weekend was when K5GW returned my call with a (579) booming signal at the tail end of the contest. I'm looking forward to finding out what he was running. I would like to remind everyone that my grid square is now EL99af, therefore making me an initial contact. I enjoy QSL cards and station pictures and I will QSL 100% from stations that request confirmation. Worked were OZ4MM, DL9KR, N2IQ, DK3WG, HA1YA, UA3PTW, DJ5NV, K0RZ, N9AB, DF3RU, DL7APV, HB9Q, DJ6MB, S52CW, G3LTF, W4ZRZ, OH2PO, DJ3FI, G4ERG, W7CNK, F5FLN, DL4KG, I5CTE, W1ZX, SM3AKW, EA8FF, G3HUL, S51ZO, ON5OF, W2WD, KA0RYT, K1FO, K5WXN, WB0GGM, K4AR, KJ7F, K4EME, JJ1NNJ, K6JEY, W7SZ, JA2TY, JL1ZCG, W7CI, VK3UM, JH4JLV, JA6AHB, UT3LL, OE5EYM, DK3FB, SK0CC, DL8OBU, YO1IS, SM3BYA, EA3DXU, G4ALH, KL6M, K5GW and VK4AFL for a total of 58 QSOs. I am looking forward to the 2nd leg.

#### **LU8EDR**

dany reports The following stations were contacted on 14 Oct on 1296 between 1300 and 1600 using my 7.2 m dish, 0.3 dB NF LNA and PA with 30 W at the feed: G4CCH, K5JL, K0YW, F6CGJ, K1RQG, OE9ERC, K4QI, OE5JFL, HB9SV, VE9DW, OE9XXI and KA0Y. Good signal were received but no answer or not complete QSO with the following stations: K2UYH, W2UHI, F2TU,

EA3UM, W2DRZ and K2AH.

### N7AM

Jack in CN87qo writes I am attempting to get set up on 1296 with a new TS2000X, YL1052 final and 30' dish. I am getting from VE1AQL a new diagonal waveguide feed, a control box and 2 tube driver. My sun noise is only 15 dB. I am verifying the focal point and if it stays where it is, I we will try Darrell's feed. During Oct part of the contest we heard VE9DW, K0YW and K5JL, and worked OE9XXI AND K0YW. SM5CEW said he heard me (529). I was using 35 W to the dish via a 150' of LDF 6-50 coax line. I am learning how to take sun noise measurements and track the moon. I need some experience using the Doppler correction of the TS2000. I have not heard any echo's yet. My mail address is (Jack Riggs, 135 ELM ST. UNIT I, BREMERTON WA 98310-2089) and tel is 360-373-8135.

### OH2DG

Eino was active in the contest -- These are my results from the ARRL EME Contest. On 14 Oct the weather conditions were great. I completed initials on 70 cm with EA8FF for #204, DJ5NV #205 and SM3BYA #206. On 23 cm I had initials with F5HRY #92, F6ETI #93, W2DRZ #94, VE9DW #95, K1RQG #96 and K0YW #97. QSO'd on 1296 were at 0235 HB9Q (O/O), 0300 JH5LUZ (549/539), 0320 JA6AHB (549/549), 0336 DJ5MN (549/O) and 0413 F6CGJ (549/549), on 432 at 0445 VK3UM (559/559), 0458 UA3PTW (559/569), 0507 JL1ZCG (559/579), 0515 F2TU (539/559) and 0528 JH4JLV (529/449), 0542 UT3LL (549/O), 0548 DJ3FI (539/549), 0553 OH2PO (569/569), 0557 EA8FF (549/549), 0603 YO2IS (339/O), 0608 HA1YA (559/559), 0613 DJ6MB (559/579), 0617 DJ5NV (569/579), 0622 S52CW (559/559), 0625 SM3AKW (549/549), 0630 EA3DXU (549/439), 0636 DL7APV (549/559), 0650 SM3BYA (429/539), 0709 HB9Q (559/539), 0730 F5FLN (449/449) and 0741 DF3RU (549/549), then back to 1296 at 0815 ZS6AXT (559/549), 0820 G4CCH (559/559), 0829 OE9ERC (569/569), 0841 F1ANH (549/O), 0917 F5HRY (O/M), 0924 OZ4MM (559/539), 0930 F6ETI (O/O), 1040 G4CCH (559/559) (Dup), 1052 K5JL (569/569), 1102 W2DRZ (539/539), 1117 VE9DW (549/549), 1129 GW3XYW (549/559), 1140 K1RQG (549/569), 1152 OZ6OL (549/539), 1158 K0YW (559/559) and 1212 WD5AGO (539/339), then back to 432 at 1258 N2IQ (559/559), 1304 DL9KR (579/579), 1312 OZ4MM (539/549), 1321 K1FO (549/559) and 1343 K0RZ (539/439). My overall results on 70 cm were 26x13 and on 23 cm 20x13. I was traveling on business on Saturday, so my contest time was Sunday only. On 70 cm I had 800 W at feed. This is higher than ever before, but on 23 cm I had only 70 W. On 70 cm I am now using a Russian tube, GS23B, with only 2.3 kV and 20 W of drive power.

### OK1CA

[Franka](#) report on the 1st leg of ARRL EME Contest on 23 cm -- I was active only on Saturday and ended with score 28x16. Initials were JA6CZD (449/449), F/G8MBI (339/O), JA6AHB (449/549), HB9BHU (449/449), IK2MMB (549/539), DJ9YW (569/559), VE9DW (569/559), W2DRZ (549/539), KOYW (559/559) and WA1JOF (449/519) to bring me to #81. It was nice weather and good conditions. I heard my own echoes with only 10 W out. I plan to be QRV on 13 and 3 cm in the 2nd leg of the contest.

#### **OK1DFC**

Zdenek apologizes for his long absence on EME -- I have been very busy in my new business position and in the spring I started to build a new house. You have heard "The devil never sleeps." I am not sleeping and I am active, but sorry no in EME. I have now finished a new system for 1296 with an FT1000MP and xverter. Also for 70 cm I have new equipment consisting of the FT1000MP and an xverter. I have also completed an xverter for 2304, 2320 and 2424 MHz, and now have a TWTA with 200 W out, plus W5LUA design preamps. I have also finished xverters for 6 and 9 cm. I am hard at work on a new design for circular pol feeds with septum polarization transformer for 1.2 up to 10 GHz. Initial results look excellent. All will be present in my talk at the EME 2002 conference. In 2nd half of the ARRL Contest I will be QRV on 70 cm. I will use a 2 x 3CX800A7 PA with 1500 W out and 4 m dish with a rotatable modified K4QI feed. I would like to give everyone points for our EME Johannes Kepler Award. We have added a registration section to the EME 2002 WEB page. Please fill out the form on the WEB and join us for what I promise will be a great conference!

#### **PA0EHG**

[Hans](#) is now QRV on 3 cm EME. He made his 1st QSO on 15 Sept with W6DH, and completed several more QSOs during the Oct contest weekend. He is using a 3 m Andrew dish with an f/d of 0.3 and a gain of 48 dB. He is using on RX a HEMT LNA (NF approx. 0.8 dB) and on TX a TWTA with approx. 60 W. In the future he expect to have 150 W. He is in JO22hb. His tel is +31 172-589349.

#### **PA0PLY**

[Jan](#) writes -- After struggling over a year, it took less then 2 minutes to make me a very happy man. I worked my 1st NA on EME in the contest! K1FO was there for initial #7 and N2IQ for #8. I'm really glad to reach this milestone! Other stations worked were HB9Q, DL9KR, DJ5NV #6, JL1ZCG, OH2PO (pse QSL) and OZ4MM. I also heard DL7APV, DF3RU and K0RZ. It was amazing to see the DSP- program, "SPECTRAN," on my computer detect much more then I was able to hear! I could see communications between stations flowing on the screen waterfall! In fact I was able to optimize the audio output using an additional tunable audio filter (DJ6HP). It improved the S/N remarkable and signals peaked to S9! I updated my WEBSITE at:

## [PA0PLY's WEB Page](#)

with new articles on G/T calculation.

### [PA3DZL](#)

[Jac's](#) report -- I worked on 432 in the ARRL EME Contest on 13/14 Oct 5 QSOs. Stations worked were OH2PO, N2IQ, K1FO, OZ4MM and DL9KR. I heard OE5JFL, OH2DG, W1ZX and JL1ZCG. All QSOs were on random. I was also on 144 and made 45 QSOs there. I will be QRV on 1296 in the Nov part of the contest.

### [RA3LE](#)

was active only on 14 Oct on 70 cm. He added initials with VK3UM, KU4F, KL7M, JL1ZCG, DJ5NV, UT3LL, S52CW and F5FLN. He had 19 QSOs in the contest.

### [RW3BP](#)

[Serge](#) is hearing EME signals on 24 GHz; here is his report -- Thanks to VE4MA and W5LUA for passing word of their Oct tests and thus enabling me to listen in. Less than a month ago, I had only a dish lying in garage and DB6NT 24 GHz preamplifier. Now this dish is on the roof of 18th floor apartment building. On 6 Oct, I 1st ran tests on 3 cm. Sun noise was 15.5 dB and moon noise 1.6 dB. 7 Oct I ran my 1st test on 24 GHz. Sun noise 13 dB and moon noise 2.1 dB (on 8 Oct at an el of 43 grad). On 9 Oct I tried to find Al and Barry 100 kHz away from right frequency. At 0913 I discovered my mistake and corrected the frequency. At 0914 I copied my 1st signal via the moon on 24 GHz. Callsigns, Ms, Rs and lot of 73s were copied. El was 14 degs and moon noise only 0.8 dB. On 10 Oct I had bad weather with rain and fog. The moon noise was low even at 45 degs el. Anyway I copied both signals with readable level. At a pause in the rain, my moon noise was about 1.2 dB. My antenna is a 2.4 m offset dish with rectangular horn as a feed. The converter and LO is by RA3ACE. The preamp (DB6NT) has a 1.6 dB NF.

### [SM6CKU](#)

[Ben](#) is QRV again – I managed to work 19 stations with my QRP signal. Heard and called, but not worked were LU8EDR, CT1DMK, WA1JOF, HB9BCD and F5HRY. Quite a few initials so I am pleased anyway. It was nice to work K1RQG for the 1st time. F/G8MBI was a surprise. There were many big signals out there!

### [S59DCD](#)

[Rajko \(S54X\)](#) writes that his group will be trying to make their 1st EME QSO on 13 cm on 27 Oct around 1600. I know this notice may be too late, but possible they will show up for the SW or the contest.

### **UA3PTW**

QSO'd before the contest RW3PF and had good result on 432 in the contest. He added initials with VK3UM, JJ1NNJ, YO2IS, DJ6MB, S52CW, F2TU, I5CTE, SM3BYA and ON5OF to bring him to initial #89. He ended with a contest score of 47x31.

### **VE4MA**

Barry reports on his 24 GHz EME tests with W5LUA -- It was a very successful test in Oct with 24 GHz EME signals being heard at G3WDG, RW3BP and VE7CLD. I completed QSO 2 on 24 GHz EME with W5LUA in about 20 minutes on 9 Oct. Al's signal was very readable, easy to find, but as time progressed over 2 1/2 hours, signals became more like 10 GHz with a very pronounced Aurora like BUZZ. Murphy's Law made an appearance at both QTHs. For the 0700 test period my PLL TX LO was unlocked with a crystal that did not start. I readjusted for best crystal activity, which moved my TX converter about 550 KHz away! After recalibrating all was OK for the 0900 test period. Al had trouble with one erratic readout, which because of no visual moon meant he could not track during 1 sequence. Al and I would like to schedule another round of tests for 4/5 Nov as follows: 4 Nov 4 W5LUA - VE4MA 24192.100 0400-0430 & 0600-0630, 5 Nov W5LUA - VE4MA 24192.100 0500-0530 & 0700-0730. We have tried to schedule times with local elevations of 30 degs minimum for Sergei and the West Coast of North America. W5LUA is not available for Saturday and Sunday and the following weekend is the EME contest again, thus the Monday and Tuesday time slots. On 10 GHz Barry worked PA3CSG, W7SZ for an initial (#) and W6HD (#). In Nov Barry plans to operate on 23 cm in the contest and will take skeds with weaker stations.

### **VE7CLD**

Gunter's report of reception of 24 GHz EME signals -- I heard VE4MA's answer WB5LUA's signals on 9 Oct at around 0902 for about half an hour, as well as on the 10 Oct at 1031. I copied the callsigns as well as many Rs, Ms and 73s. It was hard for me to copy because I was busy keeping the dish on the moon. I also believe I heard a signal on 9 Oct at 0820. The frequency on my receiver indicated 24,196.133 MHz drifting to 24,196.115 MHz. Moon noise on both days was approximately 1.5 dB. The weather was cloudy on the 2nd day. I recorded most of the contacts on audiotape. It was very exciting.

### **VK3UM**

Doug's 432 EME contest activity report -- I found conditions to be quite stable with most Eurs received here vertical and appearing to receive me best when transmitting horizontal. The NA window was quite the reverse. I was transmitting and receiving vertical for best results in that direction. To JA, it seemed best when transmitting vertical and receiving horizontal. Of course there



were the odd exception that caused consternation at times. Deep fading was prevalent after my sunrise on 14 Oct for an hour or so. Libration fading was minimal. Faraday, like the previous weekend, was about +45-60° all weekend. Insufficient time to work all those in the 'Eur window' even at 1 QSO per 4 minutes (average), but quite the contrary with NA activity (one per hour! To this point of the contest I have only managed 51 x 26. The abbreviated list is as follows: 13 Oct SM2CEW, SM3AKW, VK4AFL, DF3RU, UA3PTW, DJ5NV, DL9KR, OH2PO, JJ1NNJ, G3LTF, DL7APV, YO2IS, S52CW, JA6AHB, RA3LE, EA3DXU, HB9Q, S51ZO, JL1ZCG, K0RZ, N9AB, KA0RYT, KU4F, WB0GGM, K5WXN, N2IQ, K1FO, JS3SIM, K4AR, K4EME, KL6M and JH4JLV - worked at -0.5° moon!, and on 14 Oct DJ6MB, OM1TL, UT3LL, DK3WG, SM2BYA, RA3LE, DJ3FI, OE5EYM, I5CTE, JR1RCH, F5FLN, F2TU, OH2DG, HA1YA, ON5OF, JR9NWC, JH0BBE, W7CNK, K5GW and KJ7F. There were some absolutely HUGE signals from a many of the above. QSLs will take a while catching up with all the newbies! Total time spent on the Moon was 6 hours 45 minutes (over 2 days). That's what our windows are like 'down under' and why it's not so much of a contest but a lot of fun! A couple of constructive comments: Please only YOUR call sign on 'YYYY' (as Joe K1RQG reported earlier) and please keep the speed up. Under 12 wpm can (and does) get broken up with libration at times. 16-20 wpm seems just fine and longer spacing can help too. I hope to catch all I missed during the next 'contest' weekend.

#### **W2WD**

Warren updates his EME activities on 70 cm with a portable 20' stress dish [this is the same dish I used portable in DE, WVA, KY, PA and the UN] -- I am putting the dish up for tests and contests and then taking it down to keep the neighbors from getting too mad at me. I now have the polar mount high enough to train on Asia. I have a digital readout for GHA with a resolution of 1 deg, which eases the problem of keeping track of the antenna position. Although I have not implemented it yet, I bread boarded a PWM scheme to control the speed of my HAM 4 rotator. By adjusting the ON and OFF times feeding the motor, I was able to auto-track the moon rather easily. What's still bothering me is the disappointing results I am getting with the system. My own echoes are weak and very spotty. During the contests I do not hear the smaller stations who would probably be most in need of some help for WAS. Taking sun noise data seems to indicate a gain of about 25 dBi, both from readings of over 16 db of sun and a beamwidth of under 10-degs. The antenna is down now, but I plan to give it another whirl for the 2nd weekend of the ARRL Contest. Stations worked the 1st weekend contest were OH2PO, N2IQ, DL9KR, DL7APV, K1FO, KU4F, N9AB and HB9Q. Stations CWNR were DJ5NV, W1ZX, K0RZ, W7CI and K5WXN. Heard were F5FLN, K4EME and DJ6MB.

#### **ZS6AXT**

[Ivo's](#) Sept/Oct report -- I was looking forward to the Italian EME Contest, but it was total flop for me. I started on 23 cm, but could not copy my echoes! After a while I got them, but only (419), as against my normal (559). Then I heard stations well, so it was on my TX side. Power indicated was down. Later I measured the SWR and it was very high. So I gave it up. Then on Sunday I was on 13 cm, but worked only JA4BLC, very reliable Yoshiro and nobody else. So that was my contest. During the week I found that the last piece of 1/2" Heliax was damaged - probably by bending when I fold the feed down. I replaced it and the power went up again, in fact higher than before. I thought that my tubes were giving up. My measured sun noise on both 13 and 23 cm is 17.5 dB without searching for quiet sky. The above was my 1st real fault during any contest. So now I am ready for the ARRL Contest. During the Oct SW I was on only on 23 cm during Sunday. No JA stations were heard, and then I worked K5JL, OH2DG, DJ5MN, K9BCT (this was QSO No 2000 on 23 cm EME!), G4CCH, OE9XXI and VE6TA. Heard was OZ6OL. All stations had good signals. Otherwise I finished my new 3 cm preamp with WG input, but it is not stable. So I'm working to tame it. Work on 3 cm is hampered by our spring 6 m openings, which are unfortunately not much good! In the ARRL Contest I worked on 13 Oct, on 23 cm JH5LUZ, DJ5MN, F1ANH, OK1CA, F2TU, F/G8MBI for initial #175, OE9XXI, SM3AKW, G4CCH, OZ4MM, JA6AHB, CT1DMK, OZ6OL, F6CGJ, F5PAU, F6ETI, G3LTF, HB9Q, VE6DW, GW3XYW, IK2MMB, HB9SV, OE9ERC, K0YW, OE5EYM, WD5AGO, K5JL and W2DRZ - heard and CWNR were JA6CZD (he seems to have had poor RX for some time?), HB9BHU, JA8IAD, SM6CKU, F6HRY, WA1JOF, W4MMP and K1RQG, and on 14 Oct on 13 cm JA4BLC, F2TU, OZ4MM, SM3AKW and IK2RTI - CWNR were G3LQR, and then back on 23 cm DL4MUP #176, HB9BHU, OH2DG and OE5JFL - CWNR were IK3COJ and DL6YDH. There was lots of mutual QRM during the Contest on 23 cm. I apologize to any I might have QRM'd. There was good conditions and weather here. I had up to 29 deg C in the shack during the day. Thanks to water-cooling, the PAs were OK, just HV PSU transformers were quite hot. I could smell the insulation! The activity on 13 cm was quite disappointing despite that quite a few stations promised to be there! It is not very pleasant to call CQ for 3 hours with just 1 station worked. In general my opinion is that the ARRL EME Contest rules are very much ancient by now and should be updated AT LEAST to be like the REF/DUBUS Contest. Alternatively a microwave EME Contest should be organized again because the ARRL's effort is not much good for many of the higher bands on EME. It may have been OK for 2 m - 23 cm, but there are another 3 - 4 bands on top of that! I am prepared to take part in the organizing and evaluation of a microwave EME Contest, if this is all that is in the way of having it! In Nov I plan to be on 23 and/or 13 cm the 1st day and the 1st half of the 2nd day, then I will look to the west on 6 cm. I hope that there will be some activity.

## **K2UYH**

I did get on 70 cm for the official SW on 7 Oct and QSO'd at 0647 DL7APV (569/559), 0700 nil KO7N on sked – I think he still has PA problems, 0754 RA3LE (559/559), 0806 UT3LL (559/569) and 0817 KU4F (579/559) – phenomenal signal. I was on 432 and 1296 during the contest. Unfortunately my time was split between the contest and the Mid Atlantic VHF/UHF Conference and Hamfest. What a weekend to have a VHF/UHF gathering! It would not have been so bad if the moon was up during the nighttime. I gave a talk there. Marc, N2UO (x-LU6DW) and Brian, KB2TIS helped out with the operating, but they wanted to attend the conference too. The low dec did not help with my tree problems. I had almost no window to JA. Hopefully the leaves will be off the trees in Nov. During the contest on 13 Oct I started on 70 cm and QSO'd 1015 N9AB (559/559), 1021 DL9KR (579/579), 1027 K1FO (569/549), 1035 DF3RU (559/559), 1041 DJ5NV (579/579) for initial #646 [I thought, this may be a new DL7NDD], 1051 K0RZ (559/559), 1101 OH2PO (569/579), 1107 DL7APV (559/559), 1113 DJ6MB (569/569), 1120 N2IQ (589/569), 1140 HA1YA (559/559), 1147 UA3PTW (559/569), 1157 HB9Q (579/559), 1252 DJ3FI (449/549), 1258 S52CW (449/O) and 1311 EA8FF (559/559), then I switched to 23 cm at 1335 G4CCH (569/569), 1341 K5JL (579/579), 1343 VE9DW (569/569), 1346 K0YW (569/559), 1350 F6CGJ (559/559), 1355 F6PAU (559/449), 1404 OE9XXI (579/569), 1407 OZ6OL (559/569), 1413 F2TU (569/569), 1421 K4QI (569/569), 1449 OE9ERC (579/559), 1454 G3LTF (559/559), 1503 W2DRZ (549/549), 1512 F1ANH (549/549), 1519 W2UHI (569/569), 1527 WD5AGO (549/559) and 1745 KA0Y (569/569), and on 14 Oct. still on 1296 at 1118 W2DRZ (559/559) (dup), 1125 DJ5MN (559/579), 1140 F5ETI (559/539) for initial #190, 1204 CT1DMK (559/559), 1218 K1RQG (569/579), 1230 OZ4MM (579/569), 1235 DL4MUP (549/559) – [same as DL4MEA], 1248 OE5EYM (559/539), 1320 EA3UM (559/559), 1328 WA1JOF (559/539), 1334 VE6TA (559/559), 1407 HB9SV (579/569), 1412 W2SZ (549/549), 1937 K9BCT (559/569) and 2024 JH5LUZ (559/559) for a score of on 432 of 16x11 and on 1296 31x17.

---

## **NETNEWS**

by

**G4RGK, DAVID DIBLEY**

**G4NNS, Brian** made 2 QSOs on 3 cm with 9 W

**LA8LF** has a new email address

**[Anders's new email address](#)**

**Anders** expects to be QRV on 23 cm EME from EA8/LA8LF in the Nov part of

the contest.

**K6JEY** worked 7 stations on 432 on Saturday of the contest with good reports.

**K7XQ** did not operate 432 or 1296 EME in Oct since his 70 cm preamp is still under repair and he lost/burned out his 23 cm preamp.

**RW3PF** QSO'd UA3PTW (449/559) on 432.

**UA4NM** worked N2IQ on 70 in Oct.

**RA3DRC/1** in KO55jr have now 4 x 29 el BV yagis and 300 W on 70 cm.

**W2UHI** is up to initial #147 on 23 cm.

**K0YW** has initial #107 on 23 cm. Bruce has been working on his feed and gained 0.7 dB of sun noise.

**NU7Z** will not be on 10 GHz till next spring. Rick is currently on 5.7 GHz and is looking for I6PNN.

**W7SZ** is up to initial #9 on 3 cm. PA3CSG, VE4MA, AA5C were all worked in Oct with his 10' dish and 25 W.

**VE6TA** is working on 40 W 23 cm brick. All the voltages appear to be right, but needs some help with the Mitsubishi M57762 modules.

**W6WE** is not QRV on 70 cm at this time.

**KA0RYT** is now running 8 yagis and a GS35b PA on 432. He tried setting up a small 1296 system for the Stanford test.

**WA1DMV** is interested in 70 cm and 13 cm EME.

**G4RGK** is trying to get back on 20 m for the net and hopes to be on 70 cm for the contest.

**W5LUA** worked G4NNS on 10 GHz (9 W and a 3 m dish) for a new one.

**W2DRZ** was active on 1296 for the Oct part of the contest. Tom will probably not be on in Nov.

**G4ALH** worked 19x14 on 70 cm in the contest.

**W7QX** worked OE9ERC and K1RQG on 23 cm to bring him to initial #60.

**WD5AGO** was active on 23 cm in the contest. Tommy worked many and had fun.

**DL9KR** reports mixed condx on 432 on Saturday. Jan added initials with W1IPL and K9SLC.

**F5KDK** reports QSOs on 70 cm with OH2PO and N2IQ in the Oct part of the contest. His F6007 is still bad.

**WA6PY** will be QRV on 1296 in the 2nd half of ARRL EME Contest. Paul's window on 10 Nov is from 0930 to 2115 and on 11 Nov 1045 to 2145.

**N4PU** is hearing on 1296 EME.

**KM5A** is working away on a 70 cm EME station with 4x9 el yagis. He is only measuring 6 dB of sun noise.

**W1ZX** may make it to on 23 cm on 10/11 Nov.

**W7MEM** is looking for 432 EME skeds.

**KD4LT** will be on on 70 cm and 23 cm during the Nov contest weekend.

## FOR SALE

**K6JEY** has an **AIL 7513 noise figure meter and several types of noise heads (calibrated) for sale.** Contact Doug at: [K6JEY, Doug](#)

[SM6CKU](#) is looking for a big 1296 PA.

**W7MEM** is still looking for antennas 4 x 9 WL M2 yagis.

**K2DH** is looking for documentation on Varian VTX 2612 E2 TWT and VPW 2841 A1 PSU.

**K9ZZH** is looking for a pair of new 7289s with screw on Anode coolers.

**W0PHD** is trying to help W0EUQs widow dispose of some ham gear. George was just getting into 1296 when he came down with cancer and died on Good Friday. We have an LT-230S that he purchased for \$US1500 from SSB and will sell it for \$US750 plus shipping. I don't know if he ever had it on the air or not but it is in mint condition. He also has a K9EK kit, which was never taken out of the box. He paid \$US333 for it and we are asking \$1US70 for it and will throw in one new and two used 7289s plus the water jackets. Also there is a Model SP-7000 430-440 low noise preamp. This amp was up on the tower, but we would still like to get at

least 1/2 the new price that SSB asks for it. Wally can be reached at [Email](#) or by phone at (218-745-4626).

N2UO is looking for heavy duty linear actuator for dish elevation. Contact Mark at [Mark's email](#)

WA1JOF is looking for a means of extending a 3/8" motor shaft with lefthand thread.

---

## TECHNICAL

DL9KR reports that the MGF4919G has an excellent NF on 70 cm. It is as good as the NE324 and only about \$US3 a piece. It has a 0.2 dB NF or below on 432 and a 0.24 dB NF on 4 GHz and 0.45 on 12 GHz! Please keep the tech info coming. I have several good pieces I am holding up until after the contest news rush.

---

## FINAL

It seems like old times! There is nothing like the ARRL EME Contest to bring out the reports! We have to delayed putting out the NL a week to include as many contest reports as possible. Many TNX for the reports. It helps tremendously when they are sent/copied directly to me. About 70 percent of the reports come in this way. The rest are extracted from K1RQG's Netnotes. I try to give as complete a picture as possible, but I cannot do the job with out your input. It would have been great to be able to present a more complete picture of the high contest scores. I realize the days of posting blind skeds are nearly gone. Email and Relectors are more efficient ways to communicate. I still feel there is a need for a centralized distribution of skeds and activity information. Joe, K1RQG has expressed his concern on this point. Joe and I usually coordinate pretty [TNX Joe], but it does help if you can copy skeds and activity information to me. I do not expect very much of a showing during the pre- contest SW, but I will try to put some time in on the moon then as well as during the contest. I hope to CU off the moon in Nov!

73 AI - K2UYH





**EME Skeds**

**SKEDS**

**3 NOV**

**Time 432.040**

**0330z K6JEY -DK3WG**

**3 NOV**

**Time 1296.050**

**0300z DJ5MN -VE6NA**

**0330z DJ5MN -WA6PY**

**2200z DJ5MN -F5HRY**

---

[Netnotes by K1RQG](#)

---

**This information was obtained from:**[Scott, KD4LT](#)

---

[Return](#)

---

[Top Page](#)

---

[Rein, W6/PA0ZN](#)

---

**19990615**

---